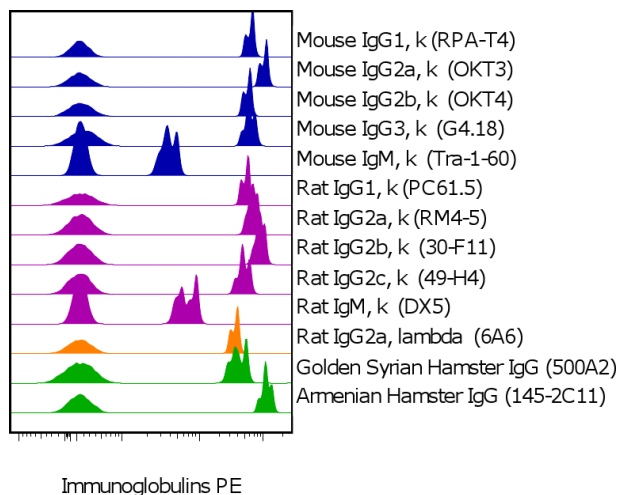


OneComp eBeads

Catalog Number: 01-1111

GPR: General Purpose Reagents. For Laboratory Use.



Staining of OneComp eBeads with 13 different PE-conjugated monoclonal antibodies including one of each subclass commonly used in flow cytometry. Beads were stained with 0.25 ug of each antibody and analyzed by flow cytometry. Each histogram represents one staining antibody (clone and isotype indicated at right).

Product Information



Contents: OneComp eBeads

Catalog Number: 01-1111

Concentration: 1 drop (50 uL)/test



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze.



Batch Code: Refer to vial



Use By: Refer to vial



Contains sodium azide

Description

OneComp eBeads react with antibodies of mouse, rat and hamster origin, and are immunoglobulin light chain-independent. The beads are spherical particles that can be stained with individual fluorochrome-conjugated antibodies for use as single-color compensation controls.

Each drop of beads contains two populations: a positive population that will capture any mouse, rat or hamster antibody and a negative population that will not react with antibody. When a fluorochrome-conjugated antibody is added to the beads, both positive and negative populations result. This bimodal distribution can be used for single-color compensation controls in multicolor flow cytometry experiments.

OneComp eBeads cross-react to some antibodies of rabbit origin, but have not been extensively tested for this reactivity. OneComp eBeads are designed for use in compensation with all fluorochromes excited by blue (488 nm), green (532 nm), yellow-green (561 nm), and red (633-635 nm) lasers. This product is compatible with eFluor® 450 but is not optimized for compensation of other fluorochromes excited by a violet (405 nm) laser.

Applications Reported

OneComp eBead has been reported for use in flow cytometric analysis.

Applications Tested

OneComp eBeads have been tested for binding of fluorochrome-conjugated antibodies by flow cytometric analysis. This can be used at 1 drop (50 uL) per test. Refer to protocol for further information.

Related Products

Not for further distribution without written consent.

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OneComp eBeads

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00-4222 Flow Cytometry Staining Buffer

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Protocol: OneComp eBeads

Other Materials Needed

- 12x75 mm round bottom test tubes
- Primary antibodies (directly fluorochrome conjugated)
- Flow Cytometry Staining Buffer (eBioscience Cat. No. 00-4222)

Experimental Procedure

Preparation of Single-Color Compensation Controls

1. Label a tube for each fluorochrome that will be used in the experiment.
2. Mix beads by inverting or pulse-vortexing.
3. Add 1 drop of beads to each tube.
4. Add 1 test of antibody conjugate to each tube.
Note: A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L.
5. Mix briefly by flicking or pulse-vortexing.
6. Incubate at 2-8°C for 15-30 minutes in the dark.
7. Add 2 mL of Flow Cytometry Staining Buffer to each tube and centrifuge at 400-600 x g for 3-5 minutes.
8. Decant supernatant and add 0.2-0.4 mL of Flow Cytometry Staining Buffer to each tube.
9. Mix briefly by flicking before analysis.

General Compensation Setup Principles

1. Run unstained cells on cytometer. Determine appropriate FSC/SSC settings and fluorescence detector (PMT) voltages for the cells.
2. Run a sample of beads to adjust FSC/SSC to visualize beads (this can even be a single stained bead). It is OK to adjust the FSC/SSC to get the beads in view.
3. Run each single-stained bead sample to assure the positive peaks are on scale. PMT voltages should be decreased (as minimally as possible) for any positive bead peak that is off-scale. Do not record any data until all single-stained beads have been reviewed.
4. Run each single-stained bead sample to perform compensation setup and record files for compensation controls.
5. Readjust FSC/SSC settings for cell samples and acquire experimental samples.